**Matrices Final Review**

Give the dimensions for the following matrices:

1. 2. 3. 4.

Use the following matrices to solve the problems below:

F = G = H = J =

5. F+H 6. H-J 7. F+G

8. 2G 9. -3H

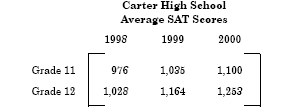
10. 3H + J 11. 4J-2F 12. -2H-3F

13. Complete the following table.

|  |  |  |
| --- | --- | --- |
| Fraction | Decimal | Percent |
| 3/5 |  |  |
|  | .875 |  |
|  |  | 75% |
| 2/3 |  | 66.6% |
|  | .8 |  |

14. Kevin, Mark, Karen, and Lisa each count the number of CDs, DVDs, and iPods that they have. Kevin has 23 CDs, 18 DVDs, and 1 iPod. Mark has 16 CDs and 32 DVDs. Karen has 29 CDs, 31 DVDs, and 1 iPod. Lisa has 20 CDs, 15 DVDs, and 2 iPods. Create a matrix that displays this information.

15. The matrix below shows the average SAT scores of eleventh and twelfth grade students over a three-year period at a high school.



1. What was the average SAT score for 11th graders in 1999?
2. What was the change of average SAT scores of twelfth-graders from 1998-2000?

16. Students investigate the prices of a large pizza, a large drink and an extra topping at several different restaurants. The information was placed in the matrix below.



Which store has the best deal for a large pizza with 2 toppings and a large drink?

17. A new Internet company, Hallogram, recorded the number of hours clients used their two services for the months of September and October

|  |  |  |
| --- | --- | --- |
| September | WorldExplore | InfoSearch |
| Client A | 59 | 37 |
| Client B | 101 | 88 |
| Client C | 29 | 18 |

|  |  |  |
| --- | --- | --- |
| October | WorldExplore | InfoSearch |
| Client A | 62 | 45 |
| Client B | 127 | 75 |
| Client C | 18 | 7 |

1. Create a single matrix to represent the **total** number of hours clients used Hallogram’s services during both.
2. What are the dimensions of the matrix you wrote in part A?